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47549 7590 02/21/2007

**PRIEST & GOLDSTEIN, PLLC**  
**5015 SOUTHPARK DRIVE**  
**SUITE 230**  
**DURHAM, NC 27713**

03/29/2007 HDENESS2 00000012 09975682

01 FC:1501 1400.00 OP  
 02 FC:1504 300.00 OP

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**Marianna Tortorelli** (Depositor's name)  
*Marianna Tortorelli* (Signature)  
**March 28, 2007** (Date)

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/975,682      | 10/11/2001  | Gang Huang           | 117.0015            | 9461             |

TITLE OF INVENTION: METHOD AND APPARATUS FOR CROSS-TALK MITIGATION THROUGH JOINT MULTIUSER ADAPTIVE PRE-CODING

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1400        | \$300               | \$0                  | \$1700           | 05/21/2007 |

| EXAMINER   | ART UNIT | CLASS-SUBCLASS |
|------------|----------|----------------|
| KIM, KEVIN | 2611     | 375-296000     |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
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- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

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(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

**Agere Systems Inc.**

**Allentown, PA**

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

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- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

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Authorized Signature Peter H. Priest

Date **March 28, 2007**

Typed or printed name **Peter H. Priest**

Registration No. **30,210**

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Huang 12

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03-28-2007

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Huang et al.

Serial No.: 09/975,682

Filed: October 11, 2001

For: METHOD AND APPARATUS FOR CROSS-TALK MITIGATION THROUGH  
JOINT MULTIUSER ADAPTIVE PRE-CODING

Group: 2638

Examiner: Kim, Kevin

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Durham, North Carolina  
March 28, 2007

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Sirs:

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office, Fax. No. 571-273-2885 on the date set forth below

1. Issue Fee Transmittal (1 page).
2. PTO-2038 Credit Card Payment Form (1 page).

Marianna Tortorelli

Printed name of person signing

Marianna Tortorelli

Signature

Date: March 28, 2007